AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1 (original): A signal compressing system, comprising:

coding means for simultaneously scanning a first signal according to a plurality of different scanning patterns to provide respective coded versions thereof;

selection means for selecting one of said scanning patterns which produces efficient subblock coding according to a predetermined criterion and for outputting a scanning pattern signal identifying the selected scanning pattern and the selected coded version of said first signal; and

a variable length coder to variable length code the received selected coded version of said first signal which is produced by scanning according to the selected scanning pattern.

- 2 (original): A system according to claim 1, wherein the coding means codes the first signal according to a runlength coding regime.
- 3 (original): A system according to claim 2, further comprising discrete cosine transformer means to produce said first signal.
- 4 (original): A system according to claim 2, further comprising a discrete cosine transformer generating said first signal.
- 5 (original): A system according to claim 1, further comprising discrete cosine transformer means for producing said first signal.
- 6 (original): A system according to claim 5, wherein said transformer means is a motion-compensated interframe adaptive discrete cosine transformer.

7 (original): An image data compressing system comprising:

means for obtaining a difference between the present frame and a preceding motion-compensated frame of an image signal;

means for coding the difference by discrete cosine transform coding and quantizing the discrete cosine transform coded image signal difference and inverse discrete cosine transform coding the quantized image signal;

means for compensating motion of the image signal;

means for coding the quantized image signal by variable length coding;

a selector for selecting an appropriate image scanning pattern from at least one of a plurality of image scanning patterns;

a multi-scanner for simultaneously scanning the quantized image signal by various said scanning patterns;

a scanning mode selector for selecting a scanning mode in which a number of bits produced from a start to an end of a data sub-block is minimized, wherein said means for coding the image signal output of the scanning mode selector by way of variable length coding; and

a multiplexer for multiplexing the variable length coded signal and the scanning pattern selecting signal output by the scanning pattern selector and for outputting the multiplexed signal.

8 (original): A signal compressing system for coupling a first signal representing a video signal to a first coder as a selected coded signal, said system comprising:

a second coder for simultaneously scanning said first signal according to a plurality of different scanning patterns and producing respective coded signals; and

a selector receiving said coded signal for selecting one of said scanning patterns based upon a predetermined sub-block selection criterion and for outputting a scanning pattern signal identifying the selected scanning pattern and said selected coded signal.

9 (original): A system according to claim 8, wherein said second coder codes said first signal according to a runlength coding regime.

10 (original): The system according to claim 9, wherein said first coder comprising a variable length coder to variable length code said selected coded signal.

11 (original): The system according to claim 9, further a comprising discrete cosine transformer for generating said first signal.

12 (original): The system according to claim 8, wherein said first coder comprising a variable length coder to variable length code the received selected coded signal.

13 (original): The system according to claim 12, further comprising a discrete cosine transformer producing said first signal.

14 (original): The system according to claim 13, wherein said transformer comprises a motion-compensated interframe adaptive discrete cosine transformer.

15 (original): The system according to claim 8, further comprising a discrete cosine transformer producing said first signal.

16 (previously presented): A decoder for decompressing a compressed video signal, the compressed video signal containing entropy encoded data representing a set of video spatial frequency coefficients of an individual sub-block which have been scanned using a selected one of a plurality of different scanning patterns to produce a set of reordered coefficients, and also

containing a scanning mode signal indicating the selected one of the plurality of different scanning patterns, the decoder comprising:

an entropy decoder operative to decode the entropy encoded data, said entropy encoded data being Huffman coded, and to output entropy decoded data; and

a scanner operative to scan the entropy decoded data according to the one selected pattern of the plurality of different scanning patterns as indicated by the scanning mode signal.

17 - 31 (canceled).

32 (previously presented): A decoding apparatus for decoding a coded data signal which includes entropy encoded data representing a set of video spatial frequency coefficients of an individual sub-block, the set of video spatial frequency coefficients having been reordered from an original order according to a scanning pattern selected from a plurality of scanning patterns, the coded data signal also including a scanning mode signal indicating the selected scanning pattern, the decoding apparatus comprising:

an entropy decoder which entropy decodes the entropy encoded data, said entropy encoded data being Huffman coded, to produce entropy decoded data; and

a scanning unit which receives the entropy decoded data and returns the set of video spatial frequency coefficients of an individual sub-block to the original order according to the selected scanning pattern indicated in the scanning mode signal.

33 (previously presented): The decoding apparatus according to claim 32, wherein the coded data signal further includes additional information.

34 (previously presented): The decoding apparatus according to claim 32, wherein the entropy encoded data and the scanning mode signal are multiplexed together as part of the coded data signal.

35 (previously presented): The decoding apparatus according to claim 33, wherein the entropy encoded data, the scanning mode signal and the additional information are multiplexed together as part of the coded data signal and wherein said decoding apparatus further includes a demultiplexer which demultiplexes the entropy encoded data, the scanning mode signal and the additional information.

36 (canceled).

37 (previously presented): The decoding apparatus according to claim 32, wherein the scanning unit scans the entropy decoded data according to a runlength decoding regime.

38 (previously presented): The decoding apparatus of claim 32, further comprising a dequantizer which dequantizes the scanned data output by said scanning unit and outputs dequantized data.

39 (previously presented): The decoding apparatus of claim 38, further comprising an inverse discrete cosine transformer which inverse discrete cosine transforms the dequantized data output by said dequantizer.

40 - 47 (canceled).

48 (previously presented): A method of decoding a coded data signal which includes entropy encoded data representing a set of video spatial frequency coefficients of an individual sub-block, the set of video spatial frequency coefficients having been reordered from an original order according to a scanning pattern selected from a plurality of scanning patterns, the coded

data signal also including a scanning mode signal indicating the selected scanning pattern, the method comprising:

entropy decoding the entropy encoded data to produce entropy decoded data, said entropy encoded data being Huffman coded, to produce entropy encoded data; and

scanning the entropy decoded data and returning the set of video spatial frequency coefficients of an individual sub-block to the original order according to the selected scanning pattern indicated in the scanning mode signal.

49 (previously presented): The method of claim 48, wherein the coded data signal further includes additional information.

50 (previously presented): The method of claim 48, wherein the entropy encoded data and the scanning mode signal are multiplexed together as part of the coded data signal.

51 (previously presented): The method of claim 49, wherein the entropy encoded data, the scanning mode signal and the additional information are multiplexed together as part of the coded data signal and wherein the method further comprises demultiplexing the entropy encoded data, the scanning mode signal and the additional information.

- 52 (canceled).
- 53 (previously presented): The method of claim 48, wherein in said scanning step the entropy decoded data is scanned according to a runlength decoding regime.
- 54 (previously presented): The method of claim 48, further comprising a step of dequantizing the scanned data output by said scanning step and outputting dequantized data.
- 55 (previously presented): The method of claim 54, further comprising a step of inverse discrete cosine transforming the dequantized data output by said dequantizing step.

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56 - 64 (canceled).

65 (previously presented): A decoder, comprising:

decoding means to which is applied a coded data signal including a compressed video signal, the compressed video signal including entropy encoded data representing a set of video spatial frequency coefficients of an individual sub-block which have been scanned using a selected one of a plurality of different scanning patterns and, the coded data signal also including a scanning mode signal indicating the selected one of the plurality of different scanning patterns, said decoding means for entropy decoding the entropy encoded data and for outputting entropy decoded data; and

scanning means for scanning the entropy decoded data according to the selected pattern indicated by the scanning mode signal.

66 (previously presented): The decoder according to claim 65, wherein the coded data signal further includes additional information.

67 (previously presented): The decoder according to claim 65, wherein the entropy encoded data and the scanning mode signal are multiplexed together as part of the coded data signal, and wherein said decoder further includes a demultiplexing means for demultiplexing the entropy encoded data, the scanning mode signal and the additional information.

68 (previously presented): The decoder according to claim 65, wherein the entropy encoded data is encoded according to a Huffman encoding regime.

69 (previously presented): The decoder according to claim 65, wherein the scanning means scans the entropy decoded data according to a runlength decoding regime.

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70 (previously presented): The decoder according to claim 65, further comprising dequantizing means for dequantizing the scanned data output by said scanning means and for outputting dequantized data.

71 (previously presented): The decoder according to claim 70, further comprising inverse discrete cosine transformer means for inverse discrete cosine transforming the dequantized data output by said dequantizing means.

72 - 95 (canceled).